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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/665,386	09/18/2003	Radia J. Perlman	SUN06-38(P9238)	4209
58408 BARRY W. CH	7590 12/12/200 HAPIN, ESQ.	EXAMINER		
CHAPIN INTE	LLECTUAL PROPER	DADA, BEEMNET W		
1700 WEST PA	GH OFFICE PARK ARK DRIVE	ART UNIT	PAPER NUMBER	
WESTBOROU	JGH, MA 01581		2135	
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		•	12/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

. Office Action Summary		Applicatio	pplication No. Applicant(s)					
		10/665,38	6	PERLMAN, RADIA J.				
		Examiner		Art Unit				
		Beemnet V	V. Dada	2135				
Period fo	The MAILING DATE of this communication or Reply	appears on the	cover sheet with the c	orrespondence ac	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. §·133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 🂢	Responsive to communication(s) filed on 2		007.					
<i>,</i> —	This action is FINAL . 2b) This action is non-final.							
,								
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠ Claim(s) <u>1-45</u> is/are pending in the application.								
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-26 and 35-45</u> is/are rejected. Claim(s) <u>27-34</u> is/are objected to.							
7)🖂								
8)□	8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
9)[The specification is objected to by the Exan	miner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	 Certified copies of the priority documents have been received. 							
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948	3)	4) Interview Summary Paper No(s)/Mail D					
3) Infor	mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date	-	5) Notice of Informal F 6) Other:					

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DETAILED ACTION

1. This office action is in reply to an amendment filed on September 28, 2007. Claim 44 has been amended and new claim 45 has been added. Claims 1-45 are pending.

Response to Arguments

- 2. Applicant's arguments, filed 9/28/07, with respect to rejections of claims 27 and 31 have been fully considered and are persuasive. The rejection of claims 27 and 31 has been withdrawn.
- 3. Applicant's arguments with respect to claims 1, 19 and 42-44 have been fully considered but they are not persuasive. Applicant argues that the art on record (Perlman, US 6,363,480) does not teach communicating the blinded message to the first node. Examiner disagrees.

Examiner would point out that, Perlman teaches a message blinded and encrypted with an ephemeral encryption key of an ephemeral key pair to form a blinded and encrypted message (i.e., doubly encrypted symmetric key) and communicating said blinded message to said first node (i.e., passing the encrypted symmetric key, column 8, lines 28-31). Examiner would further point out that the art on record teaches the claim limitations and therefore, the rejection is respectfully maintained.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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- 5. Claims 1-26 and 35-45 are rejected under 35 U.S.C. 102(b) as being anticipated by Perlman US 6,363,480 B1.
- 6. As per claims 1, 42, 43 and 44, Perlman teaches a method for performing blinded ephemeral decryption of a message, the method comprising the steps of:

receiving from a first node at an ephemerizer an ephemeral key ID and a message blinded and encrypted with an ephemeral encryption key of an ephemeral key pair to form a blinded and encrypted message (i.e., doubly encrypted symmetric key), said ephemeral key pair associated with said ephemeral key ID (i.e., receiving at an ephemeizer, a symmetric key encrypted with an encryption key of party B (i.e., blinded), and encrypted by ephermeral encryption key, column 8, lines 18-31, also note that ephemeral message format includes ephermal key identifier, column 7, lines 23-42);

decrypting said blinded and encrypted message using an ephemeral decryption key of said ephemeral key pair to form a blinded message (i.e., decrypting the doubly encrypted symmetric key using ephermeral key to form symmetric key encrypted with party B's key, column 8, lines 22-9);

communicating said blinded message to said first node (i.e., passing the encrypted symmetric key, column 8, lines 28-31); and irretrievably deleting said ephemeral decryption key in response to a specified event [column 8, lines 37-39].

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7. As per claim 19, Perlman teaches a method for performing blind ephemeral decryption of a message M that has been encrypted to form an encrypted message, comprising the steps of:

in a first blinding step, blinding said encrypted message at a first node with a blinding function z (i.e., encryption/decryption function) to form a first blinded and encrypted message, wherein z has an inverse z.sup.-1 (i.e., encrypting a symmetric key using an encryption key of Party B and then doubly encrypting the symmetric key using ephermeral encryption key, column 8, lines 12-15);

in a first communicating step, communicating said first blinded and encrypted message from said first node to a decryption agent (i.e., Party B forwarding the doubly encrypted. symmetric key to an ephermerizer, column 8, lines 19-21);

decrypting said first blinded and encrypted message by said decryption agent using an ephemeral decryption function to form a first blinded message, wherein said ephemeral decryption function is the inverse of said ephemeral encryption function (i.e., decrypting the symmetric key using ephemeral key, column 8, lines 22-26);

in a second communicating step, communicating said first blinded message from said decryption agent to said first node(i.e., passing the encrypted symmetric key, column 8, lines 28-31); and

in a first unblinding step, unblinding said first blinded message using z.sup.-1, to obtain said message M (i.e., Party B decrypting the encrypted symmetric key using its own key, column 8, lines 28-31); and

irretrievably deleting said ephemeral decryption key in response to a specified event [column 8, lines 37-39].

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- 8. As per claims 2-4, Perlman further teaches the system wherein said ephemeral key ID is associated with an ephemeral RSA public and private key pair / Diffe-Hellman key pair / symmetric key pair, corresponding to said ephemeral encryption key and said ephemeral decryption key, respectively [column 5, lines 10-21].
- 9. As per claims 5-16, Perlman further teaches the system further including prior to the receiving step, the step of generating said ephemeral key ID and said ephemeral encryption and decryption keys of said ephemeral key pair [column 7, lines 22-36 and column 5, lines 9-24].
- 10. As per claims 17 and 18, Perlman further teaches the method wherein said specified event is the recognition of a predetermined date and time / in response to a request by a user to delete said ephermal decryption key [column 5, lines 24-25 and column 8, lines 37-39].
- 11. As per claims 20 and 21, Perlman further teaches the method wherein said first node and said decryption agent are communicably coupled via a network, and at least one of said first and second communicating steps comprises the step of communicating the respective message over said network [figure 4].
- 12. As per claim 22, Perlman further teaches the method wherein said first communicating step comprises the step of communicating said first blinded and encrypted message from said first node to said decryption agent via an anonymizer node and said second communicating step comprises the step of communicating said first blinded message from said decryption agent to said first node via said anonymizer node [column 8, lines 19-31].

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- 13. As per claims 23, 40, and 41, Perlman further teaches the method further including the step of rendering said ephemeral decryption function irretrievably deleted upon the occurrence of said specified event [column 5, lines 24-25 and column 8, lines 37-39].
- 14. As per claim 24, Perlman further teaches the method further including the step of generating said message at said first node [column 8, lines 18-31].
- 15. As per claims 25-26, Perlman further teaches the method wherein said ephemeral encryption and decryption functions are respectively, ephemeral public and private keys of an ephemeral public key pair [column 5, lines 10-22].
- 16. As per claims 35-39, Perlman further teaches the method including, prior to said first blinding step, the steps of: selecting a blinding number y having an inverse blinding number y.sup.-1; in a second blinding step, blinding said message M using said blinding number y to form a second blinded message; forwarding said second blinded message to an encryption agent; encrypting by said encryption agent said second blinded message to form a second blinded and encrypted message, wherein said ephemeral encryption is performed using said ephemeral encryption function and wherein said ephemeral encryption function and said corresponding ephemeral decryption function are secret symmetric ephemeral encryption and ephemeral decryption keys, respectively; forwarding said second blinded and encrypted message from said encryption agent to said first node; and in a second unblinding step, unblinding said second blinded and encrypted message using said inverse blinding number y.sup.-1 to form said encrypted message [column 8, lines 19-38].

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17. As per claim 45, Perlman further teaches the method wherein decrypting said blinded and encrypted message by raising the product ((R.sup.e*M.sup.e)mod n) to the power d mod n, forming ((R.sup.e*M.sup.e)mod n)).sup.d mod n to form a first blinded message R.M mod n [column 8, lines 18-38].

.Allowable Subject Matter

18. Claims 27-34 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Beemnet W. Dada whose telephone number is (571) 272-3847. The examiner can normally be reached on Monday - Friday (9:00 am - 5:30 pm).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Beemnet W Dada

December 07, 2007

TOTAL SOLD PATENT EXAMINATION OF THE PARTY O